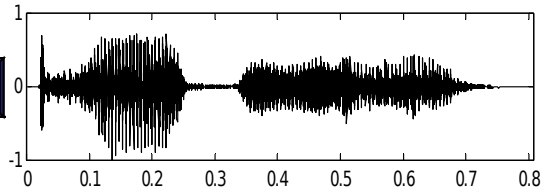


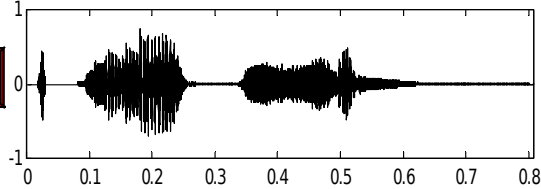
Transition Speech Waveforms

Estimates of quasi-steady-state and transition components of speech – preliminary work

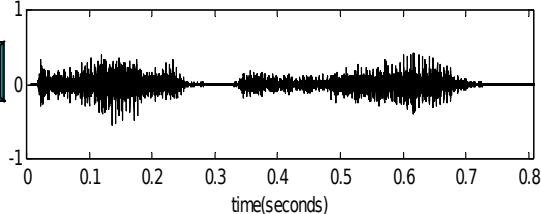
Original speech



“Quasi-Steady-state”



“Transition”



“cowboy” (Northwestern University word list)

Contemporary Perspectives in Hearing Assessment, by Frank E. Musiek and William F. Rintelmann, Allyn and Bacon,

Objective

To enhance the efficiency of RF voice communications

Approach

Study approaches and effects for isolation of transition content (between phonemes) from steady-state content (phonemes)

Payoff

- More intelligible RF communications in noisy environments
- More efficient voice digitization (using bits where they do the most good)
- More intelligible voice comms with temporarily impaired hearing

Principal Investigator

Dr. J. Robert Boston, University of Pittsburgh

Progress

New start